

B 91 02-02-05

JRW SS 1623

Approved for use through 08/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
PTO/SB/21 (08-03)

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

		Application Number	10/056,121
		Filing Date	01/23/2002
		First Named Inventor	Wellinghoff
		Art Unit	1623
		Examiner Name	Killoso, P.
Total Number of Pages in This Submission	7+	Attorney Docket Number	SWRI-2835-07

ENCLOSURES (Check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	1) 35 References;
<input checked="" type="checkbox"/> Supplemental Information Disclosure Statement	<input type="checkbox"/> Request for Refund	2) Credit Card Payment Form PTO-2038;
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	3) Certificate of Mailing 37 CFR 1.10; and
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application		4) Return Receipt Postcard.
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		
Remarks		
<p>The Commissioner is hereby authorized to charge any additional fees or credit any overpayments to Deposit Account No. 50-0997 (SWRI-2835-07), maintained by Paula D. Morris & Associates, P.C. d/b/a The Morris Law Firm, P.C.</p>		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Paula D. Morris, Reg. No. 31,516
Signature	
Date	2-1-05

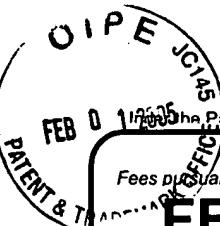
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Effective on 12/08/2004.
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL For FY 2005

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$)
\$180.00

Complete if Known

Application Number	10/056,121
Filing Date	1-23-2002
First Named Inventor	Wellinghoff, et al.
Examiner Name	Kilos
Art Unit	1623
Attorney Docket No.	SWRI-2835-07

METHOD OF PAYMENT (check all that apply)

Check Credit Card Money Order None Other (please identify): _____
 Deposit Account Deposit Account Number: **50-0997
SWRI-2835-07** Deposit Account Name: **Paula Morris & Associates**

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

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FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

<u>Application Type</u>	<u>FILING FEES</u>		<u>SEARCH FEES</u>		<u>EXAMINATION FEES</u>		<u>Fees Paid (\$)</u>
	<u>Fee (\$)</u>	<u>Small Entity</u>	<u>Fee (\$)</u>	<u>Small Entity</u>	<u>Fee (\$)</u>	<u>Small Entity</u>	
Utility	790	395	500	250	200	100	_____
Design	200	100	100	50	130	65	_____
Plant	200	100	300	150	160	80	_____
Reissue	300	150	500	250	600	300	_____
Provisional	200	100	0	0	0	0	_____

2. EXCESS CLAIM FEES

Fee Description

Each claim over 20 (including Reissues)

Each independent claim over 3 (including Reissues)

Multiple dependent claims

<u>Total Claims</u>	<u>Extra Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>	<u>Small Entity</u>	<u>Fee (\$)</u>	<u>Fee (\$)</u>
0 - 20 or HP =	9	x 50	= 0		50	25

HP = highest number of total claims paid for, if greater than 20.

<u>Indep. Claims</u>	<u>Extra Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>	<u>Multiple Dependent Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
0 - 3 or HP =	0	x 200	= 0			

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

<u>Total Sheets</u>	<u>Extra Sheets</u>	<u>Number of each additional 50 or fraction thereof</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
_____ - 100 =	/ 50 =	(round up to a whole number) x	_____ =	_____

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

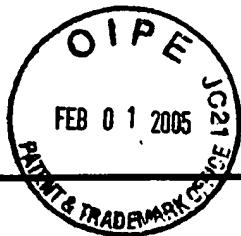
Other (e.g., late filing surcharge): Supplemental Information Disclosure Statement \$180.00

SUBMITTED BY

Signature		Registration No. (Attorney/Agent) 31,516	Telephone 713.334.5151
Name (Print/Type)	Paula D. Morris	Date 2-1-05	

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Applicant: Wellinghoff, et al.

Group Art Unit: 1623

Serial No.: 10/056,121

Examiner: Killos

Filing Date: 1-23-2002

Atty. Docket No.: SWRI-2835-07

Title: Novel Mesogens



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Wellinghoff, et al. § Group Art Unit: 1623
Serial No.: 10/056,121 Examiner: Killos
Filed: 01/23/2002 Atty. Docket No.: SWRI-2835-07
Title: Novel Mesogen (previously 2835-04)



Commissioner for Patents
PO BOX 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Dear Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Supplemental Information Disclosure Statement be entered and the references listed on the attached Forms PTO/SB/08A and PTO/SB/08B be considered by the Examiner and made of record.

This Supplemental Information Disclosure Statement is not to be considered as a representation that a search has been made or that no other material information as defined under 37 C.F.R. § 1.56 exists.

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02/07/2005 BABRAHA1 00000018 10056121

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180.00 DP

Respectfully submitted,

Paula D. Morris, Registration No. 31,516
Paula D. Morris & Associates, PC
dba The Morris Law Firm, P.C.
10260 Westheimer, Suite 360
Houston, Texas 77042-3728
Telephone: (713) 334-5151
Facsimile: (713) 334-5157



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Substitute for form 1449/PTO

Complete if Known

Application Number	10/056,121
Filing Date	01-23-2002
First Named Inventor	Wellinghoff
Art Unit	1623
Examiner Name	Killos

Sheet 1 of 6

Attorney Docket Number SwRI-2835-07

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (<i>if known</i>)			
		US- 5,808,108	09-15-1998	Chappelow, et al.	
		US- 2004/0144954 A1	07-29-2004	Wellinghoff	
		US- 4,914,221	04-03-1990	Winkler, et al.	
		US- 6,204,302	03-20-2001	Rawls, et al.	
		US- 2002/0036285 A1	03-28-2002	Prechtl, et al.	
		US- 6,699,405 B2	03-02-2004	Prechtl, et al.	
		US- 6,194,481 B1	02-27-2001	Furman, et al.	
		US- 2003/0055280 A1	03-20-2003	Wellinghoff, et al.	
		US- 2003/0036609 A1	02-20-2003	Wellinghoff, et al.	
		US- 2003/0168633 A1	09-11-2003	Wellinghoff, et al.	
		US- 5,624,976	04-29-1997	Klee	
		US- 6,649,230	11-18-2003	Seiberle, et al.	
		US- 2004/0199004	10-07-2004	Wellinghoff, et al.	
		US- 4,201,856	05-06-1980	Jackson Jr	
		US- 6,303,050	10-16-2001	Dannenhauer, et al.	
		US- 2002/0013382	01-31-2002	Furman, et al.	
		US- 6,696,585	02-24-2004	Wellinghoff, et al.	
		US- 6,743,936	06-01-2004	Wellinghoff, et al.	
		US- 6,410,765	06-25-2002	Wellinghoff, et al.	

FOREIGN PATENT DOCUMENTS

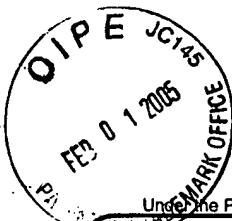
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (<i>if known</i>)				
		WO 02/070543 A2	09-12-2002	Univ. of Texas		
		EP 0159887 A2	10-30-1985	Minnesota Min		
		WO 79/01040	11-29-1979	Eastman Kodak		
		WO 94/16129	07-21-1994	PPG Industries		
		EP 0 242 278 A2	10-21-1987	U. of Illinois		

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Application Number	10/056,121
Filing Date	01-23-2002
First Named Inventor	Wellinghoff
Art Unit	1623
Examiner Name	Killos

Sheet 2 of 6

Attorney Docket Number SwRI-2835-07

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 6,695,617	02-24-2002	Wellinghoff, et al.	
		US- 6,417,244	07-09-2002	Wellinghoff, et al.	
		US- 6,414,092	07-02-2002	Coates	
		US- 2003/0125435 A1	07-03-2003	Norling	
		US- 5,024,850	06-18-1991	Broer	
		US- 6,291,035	09-18-2001	Verrall	
		US- 6,217,955	04-17-2001	Coates	
		US- 6,217,792	04-17-2001	Parri	
		US- 6,117,920	09-12-2000	Jolliffe	
		US- 6,144,428	11-07-2000	Schadt	
		US- 2002/0177727 A1	11-28-2002	Wellinghoff	
		US-			

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Complete if Known**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/056,121
Filing Date	01-23-2002
First Named Inventor	Wellinghoff
Art Unit	1623
Examiner Name	Killos
Sheet	3
of	6
Attorney Docket Number	SwRI-2835-07

NON PATENT LITERATURE DOCUMENTS

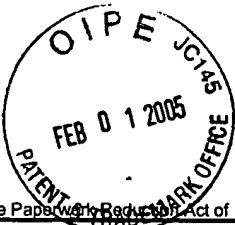
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		CHOI, Rheological studies on sterically stabilized model dispersions of uniform colloidal spheres. II. Steady-shear viscosity, J. Colloid Interface Science., September 1986, pp. 101-113, Vol. 113(1), Academic Press, Inc.	
		CONDON, Reduction of composite contraction stress through non-bonded microfiller particles, Dental Materials, July 1998, pp. 256-260, Vol. 14.	
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		LIU, Constant-volume polymerization of composites by addition of ammonia-modified montmorillonite, American Journal of Dentistry, April 1990, pp. 44-50, Vol. 3(2).	
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		RAWLS ET AL, Low Shrinkage resins from liquid crystal diacrylate monomers, ACS Polymer Preprints, September 1997, pp. 167-168, Vol. 38(2).	
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		UNO ET AL, Marginal adaptation of a restorative resin polymerized at reduced rate, Scand. J. Dent. Res., 1991, pp. 440-444, Vol. 99(5).	

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Sheet

4

of

6

Attorney Docket Number

SwRI-2835-07

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		HOLMBERG, Ester Synthesis with Dicyclohexycarbodiimide Improved by Acid Catalysts, Acta Chemica Scandinavica, 1979, pp. 410-412, Vol. B 33.	
		NAKAMURA, Characterization of Epitaxially Grown ZnS : Mn Films on a GaAs(100) Substrate prepared by the Hot-wall Epitaxy Technique, J. Mater. Chem., 1991, pp. 357-359, Vol. 1(3).	
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		KORNBLUM, Displacement of the Nitro Group of Substituted Nitrobenzenes - a Synthetically Useful Process, J. Org. Chem., 1976, pp. 1560-1564, Vol. 41, The American Chemical Society.	
		CLARK, X-Ray Scattering Study of Smectic Ordering in a Silica Aerogel, Physical Review Letters, November 22, 1993, pp. 3505-3508, Vol. 71, No. 21, The American Chemical Society.	
		BROER, In-Situ photopolymerization of oriented liquid-crystalline acrylates, 4 Influence of a lateral methyl substituent on monomer and oriented polymer network properties of a mesogenic diacrylate, Makromol. Chem. 1989, pp. 3201-3215, Vol. 190, Huthig & Wepf Verlag Basel, Heidelberg, New York.	
		BARCLAY, Liquid Crystalline and Rigid-rod Networks, Prog. Polym. Sci., 1993, pp. 899-945, Vol. 18(5), Pergamon Press Ltd.	
		Liquid Crystalline Polymers to Mining Applications, Encyclopedia of Polymer Science and Engineering, 1987, pp. 1-61, Vol. 9, John Wiley & Sons, New York.	

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Complete if Known**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

5

of

6

Application Number	10/056,121
Filing Date	01-23-2002
First Named Inventor	Wellinghoff
Art Unit	1623
Examiner Name	Killios
Attorney Docket Number	SwRI-2835-07

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		MEEK, Inertness of Tetrachlorofulvenes in the Diels-Alder Reaction, J. Org. Chem., January 9, 1958, pp. 1708-1710, Vol. 22 (12), The American Chemical Society.	
		SUZUKI ET AL, Preparation of poly(dimethylsiloxane) macromonomers by the initiator method: 2. Polymerization mechanism, Polymer, 1989, pp. 333-337, Vol. 30(2), Butterworth	
		KOCHAN ET AL, Solid Freeform Manufacturing - Assessments and Improvements at the Entire Process Chain, Proceedings of the Seventh International Conference on Rapid Prototyping, March 31-April 3, 1997, pp. 203-214, 94RA021.	
		NORLING ET AL, Cure shrinkage of experimental LC monomer based composite resins, Abstract, American Association for Dental Research meeting, 2001, Chicago, IL.	
		MOGRI ET AL, Thermomechanical of liquid crystalline monomer in dental composites, Abstract, American Association for Dental Research meeting, 2001, Chicago, IL.	
		DOWELL ET AL, The Effect of Silanation on Polymerization and Dynamic Mechanical Behavior of a homogenous nanofilled resin, Abstract, American Association for Dental Research meeting, 2001, Chicago, IL.	
		LOGAN ET AL, Effect of Silanation on Mechanical Properties of Homogeneous Nanofilled resins, Abstract, American Association for Dental Research meeting, 2001, Chicago, IL.	
		NORLING ET AL, Synthesis of a new low shrinkage liquid crystal monomer, Abstract, American Association for Dental Research meeting, 2000, Washington, D.C.	
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		GENG, Targeted Drug Release by a Novel Polymeric Device Based on EVA (Ethylene Vinyl Acetate) For Periodontal Condition, (ABSTRACT).	

Examiner Signature	Date Considered
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		Application Number	10/056,121
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		First Named Inventor	Wellinghoff
		Art Unit	1623
Examiner Name	Killos		
Sheet	6	of	6
		Attorney Docket Number	SwRI-2835-07

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		BOLAND ET AL, Cell Survival and Cytokine Expression by Dental Cells Treated with a Liquid Crystal Resin Monomer, J. Dent. Res., 2001, pp. 151 (Abstract 928), Vol. 80.	
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		NORLING ET AL, Cure shrinkage of composite resins and an experimental LC monomer, J. Dent. Res., 1999, pp. 233 (Abstract 1020), Vol. 78.	
		PANYAYONG, Effects of Corn-Starched & Primer Additions on Mechanical Properties of Provisional Dental Resin, (ABSTRACT).	

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